

Sensors in High-B Fields

FY18 activities report

- Construction of a fast laser system for timing-resolution measurements: completed.
- Commissioning of the fast laser system: in progress
- Planacon B-field gain measurements at varying HV across the three stages: in progress
- Planacon B-field studies of ion feedback: in progress
- First timing-resolution measurements: in progress

FY19 proposed activities

- Detailed time-resolution studies of 10-mm Planacon as a function of B, theta, phi, and HV.
- Gain and timing measurements of a Photek 10 mm sensor (if available).

Results from Summer 2018 Gain Studies

10- μ m Planacon: Gain

Results from Summer 2018 Efficiency Studies

10- μm Planacon: Efficiency

Results from Summer 2018 Gain Studies

10- μm Planacon: Ion Feedback